

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

as Secretary to the Commission

VOLUME 19. Part 9. Pp. 209—248

OPINION 522

Suppression under the Plenary Powers (i) of certain names published by C. S. Rafinesque for genera and species of the Orders Decapoda and Stomatopoda (Class Crustacea) in the period 1814—1818 and (ii) of certain specific names currently regarded as senior subjective synonyms of the names of the type species of *Homola* Leach, 1815, and *Lissa* Leach, 1815 respectively both being genera assigned to the first of the foregoing Orders

LONDON :

Printed by Order of the International Trust for
Zoological Nomenclature
and

Sold on behalf of the International Commission on Zoological
Nomenclature by the International Trust at its Publications Office
41, Queen's Gate, London, S.W.7
1958

Price One Pound and Six Shillings

(All rights reserved)

SEP 10 1958

LIBRARY

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 522

A. The Officers of the Commission

Honorary Life President : Dr. Karl JORDAN (*British Museum (Natural History),
Zoological Museum, Tring, Herts., England*)

President : Professor James Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*)
(12th August 1953)

Vice-President : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

Secretary : Mr. Francis HEMMING (*London, England*) (27th July 1948)

B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,
Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt
a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu
Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*) (12th August
1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans,
Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N. Y.,
U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation,
Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,
Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)
(16th December 1954)

OPINION 522

SUPPRESSION UNDER THE PLENARY POWERS (i) OF CERTAIN NAMES PUBLISHED BY C. S. RAFINESQUE FOR GENERA AND SPECIES OF THE ORDERS DECAPODA AND STOMATOPODA (CLASS CRUSTACEA) IN THE PERIOD 1814—1818 AND (ii) OF CERTAIN SPECIFIC NAMES CURRENTLY REGARDED AS SENIOR SUBJECTIVE SYNONYMS OF THE NAMES OF THE TYPE SPECIES OF "HOMOLA" LEACH, 1815, AND "LISSA" LEACH, 1815, RESPECTIVELY, BOTH BEING GENERA ASSIGNED TO THE FIRST OF THE FOREGOING ORDERS

RULING :—(1) The following action is hereby taken under the Plenary Powers :—

(a) The under-mentioned generic names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy :—

- (i) *Acilius* Rafinesque, 1815 ;
- (ii) *Alciope* Rafinesque, 1814 ;
- (iii) *Byzenus* Rafinesque, 1814 ;
- (iv) *Mesapus* Rafinesque, 1814 ;
- (v) *Nectoceras* Rafinesque, 1817 ;
- (vi) *Niphea* Rafinesque, 1815 ;
- (vii) *Symethus* Rafinesque, 1814 ;
- (viii) *Thelxiope* Rafinesque, 1814 ;

- (b) The under-mentioned specific names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy :—
- (i) *achiria* Rafinesque, 1817, as published in the combination *Hippa achiria* ;
 - (ii) *crocea* Rafinesque, 1814, as published in the combination *Squilla crocea* ;
 - (iii) *cruentatus* Linnaeus, 1758, as published in the combination *Cancer cruentatus* ;
 - (iv) *cubicus* Forskål, 1775, as published in the combination *Cancer cubicus* ;
 - (v) *fasciatus* Rafinesque, 1814, as published in the combination *Mesapus fasciatus* ;
 - (vi) *fluviatilis* Rafinesque, 1814, as published in the combination *Symethus fluviatilis* ;
 - (vii) *fossor* Rafinesque, 1817, as published in the combination *Astacus fossor* ;
 - (viii) *heterochelus* Rafinesque, 1814, as published in the combination *Alciope heterochelus* ;
 - (ix) *levigatus* Rafinesque, 1814, as published in the combination *Inachus levigatus* ;
 - (x) *novemdecos* Sulzer, 1776, as published in the combination *Cancer novemdecos* ;
 - (xi) *pelagica* Rafinesque, 1817, as published in the combination *Nectoceras pelagica* ;
 - (xii) *portunoides* Rafinesque, 1814, as published in the combination *Cancer portunoides* ;
 - (xiii) *pusilla* Rafinesque, 1817, as published in the combination *Ocypoda pusilla* ;
 - (xiv) *quadricolor* Rafinesque, 1814, as published in the combination *Peneus quadricolor* ;
 - (xv) *rugosus* Rafinesque, 1817, as published in the combination *Nectylus rugosus* ;

- (xvi) *scaber* Rafinesque, 1814, as published in the combination *Byzenus scaber* ;
- (xvii) *striata* Rafinesque, 1814, as published in the combination *Aglaope striata* ;
- (xviii) *tomentosus* Rafinesque, 1814, as published in the combination *Inachus tomentosus* ;
- (xix) *triadona* Rafinesque, 1814, as published in the combination *Squilla triadona* ;
- (xx) *truncatulus* Rafinesque, 1817, as published in the combination *Pagurus truncatulus*.

(2) The under-mentioned generic names in the Order Decapoda (Class Crustacea) are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Albunea* Weber, 1795 (gender : feminine) (type species, by selection by Holthuis (L.B.) (1956) : *Cancer symmysta* Linnaeus, 1758) (Name No. 1299) ;
- (b) *Atyaephyra* de Brito Capello, 1867 (gender : feminine) (type species, by monotypy : *Atyaephyra rosiana* de Brito Capello, 1867) (Name No. 1300) ;
- (c) *Homola* Leach, 1815 (gender : feminine) (type species, by monotypy : *Homola spinifrons* Leach, 1815) (Name No. 1301) ;
- (d) *Lissa* Leach, 1815 (gender : feminine) (type species, by monotypy : *Cancer chiragra* Fabricius (J.C.), 1775) (Name No. 1302) ;
- (e) *Lysmata* Risso, 1816 (gender : feminine) (a substitute name for *Melicerta* Risso, 1816, a junior homonym of *Melicerta* Schrank, 1803) (type species, by selection by Milne Edwards (H.),

(1837) : *Melicerta seticaudata* Risso, 1816) (Name No. 1303) ;

(f) *Pontophilus* Leach, [1817] (gender : masculine) (type species, by monotypy : *Crangon spinosus* Leach, 1815) (Name No. 1304) ;

(g) *Stenopus* Latreille, 1819 (gender : masculine) (type species, by monotypy : *Palaemon hispidus* Olivier, 1811) (Name No. 1305).

(3) The name of the under-mentioned genus in the Class Rotifera is hereby placed on the *Official List of Generic Names in Zoology* with the Name Number 1306 :—

Melicerta Schrank, 1803 (gender : masculine) (type species, by monotypy : *Sabella ringens* Linnaeus, 1767).

(4) The under-mentioned specific names of species in the Order Decapoda (Class Crustacea) are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

(a) *barbatus* Fabricius, 1793, as published in the combination *Cancer barbatus* (Name No. 1551) ;

(b) *chiragra* Fabricius, 1775, as published in the combination *Cancer chiragra* (specific name of type species of *Lissa* Leach, 1815) (Name No. 1552) ;

(c) *desmarestii* Millet, 1831, as published in the combination *Hippolyte desmarestii* (Name No. 1553) ;

(d) *diogenes* Girard, 1852, as published in the combination *Cambarus diogenes* (Name No. 1554) ;

- (e) *fasciatus* Risso, 1816, as published in the combination *Crangon fasciatus* (Name No. 1555) ;
- (f) *flavomaculata* Heller, 1864, as published in the combination *Pontonia flavomaculata* (Name No. 1556);
- (g) *longicarpus* Say, 1817, as published in the combination *Pagurus longicarpus* (Name No. 1557) ;
- (h) *limosus* Rafinesque, 1817, as published in the combination *Astacus limosus* (Name No. 1558) ;
- (i) *longipes* Risso, 1816, as published in the combination *Portunus longipes* (Name No. 1559) ;
- (j) *lunulata* Risso, 1816, as published in the combination *Maia lunulata* (Name No. 1560) ;
- (k) *pugnax* Smith, 1870, as published in the combination *Gelasimus pugnax* (Name No. 1561) ;
- (l) *seticaudata* Risso, 1816, as published in the combination *Melicerta Seti Caudata* [sic] (specific name of type species of *Lysmata* Risso, 1816) (Name No. 1562) ;
- (m) *spinosus* Leach, 1815, as published in the combination *Crangon spinosus* (specific name of type species of *Pontophilus* Leach, [1817]) (Name No. 1563) ;
- (n) *spinosus* Risso, 1827, as published in the combination *Stenopus spinosus* (Name No. 1564) ;
- (o) *symmysta* Linnaeus, 1758, as published in the combination *Cancer symmysta* (specific name of type species of *Albunea* Weber, 1795) (Name No. 1565) ;
- (p) *talpoida* Say, 1817, as published in the combination *Hippa talpoida* (Name No. 1566) ;

(5) It is hereby directed that the words “ specific name of type species of *Stenopus* Latreille, 1819 ” be inserted in the entry relating to the specific name *hispidus* Olivier, 1811, as published in the combination *Palaemon hispidus* (Class Crustacea, Order Decapoda), made on the *Official List of Specific Names in Zoology* as Name Number 614 by the Ruling given in *Opinion* 381.

(6) The under-mentioned specific names in the Order Stomatopoda (Class Crustacea) are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *eusebia* Risso, 1816, as published in the combination *Squilla eusebia* (Name No. 1567) ;
- (b) *ferussaci* Roux, 1830, as published in the combination *Squilla ferussaci* (Name No. 1568).

(7) The under-mentioned specific name of a species of the Class Rotifera is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1569 :—

ringens Linnaeus, 1767, as published in the combination *Sabella ringens* (specific name of type species of *Melicerta* Schrank, 1803).

(8) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) The under-mentioned generic names, as suppressed under the Plenary Powers under (1)(a) above :—
 - (i) *Acilius* Rafinesque, 1815 (Name No. 1183) ;
 - (ii) *Alciope* Rafinesque, 1814 (Name No. 1184) ;

- (iii) *Byzenus* Rafinesque, 1814 (Name No. 1185);
 - (iv) *Mesapus* Rafinesque, 1814 (Name No. 1186);
 - (v) *Nectoceras* Rafinesque, 1817 (Name No. 1187);
 - (vi) *Niphea* Rafinesque, 1815 (Name No. 1188);
 - (vii) *Symethus* Rafinesque, 1814 (Name No. 1189);
 - (viii) *Thelxiopè* Rafinesque, 1814 (Name No. 1190);
- (b) *Aglaopè* Rafinesque, 1814 (a junior homonym of *Aglaopè* Latreille, 1809) (Name No. 1191);
 - (c) *Crangonus* Rafinesque, 1815 (a junior objective synonym of *Crangon* Fabricius, 1798) (Name No. 1192);
 - (d) *Lissula* Rafinesque, 1818 (a junior objective synonym of *Lissa* Leach, 1815) (Name No. 1193);
 - (e) *Lupania* Rafinesque, 1818 (a junior objective synonym of *Portunus* Weber, 1795) (Name No. 1194);
 - (f) *Syllarus* Rafinesque, 1815 (a junior objective synonym of *Scyllarus* Fabricius, 1775) (Name No. 1195);
 - (g) *Symathus* Rafinesque, 1815 (an Erroneous Subsequent Spelling for *Symethus* Rafinesque, 1814) (Name No. 1196);
 - (h) *Symnista* Rafinesque, 1815 (a junior objective synonym of *Albunea* Weber, 1795) (Name No. 1197);
 - (i) The under-mentioned generic names, each of which is a junior homonym of *Melicerta* Schrank, 1803 :—
 - (i) *Melicerta* Péron & Lesuer, 1810 (Name No. 1198);

- (ii) *Melicerta* Risso, 1816 (Name No. 1199) ;
- (iii) *Melicerta* Tilesius, 1831 (Name No. 1200) ;
- (iv) *Melicerta* Stephens, 1833 (Name No. 1201).

(9) The under-mentioned specific names, each of which is suppressed under the Plenary Powers under (1)(b) above, are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *achiria* Rafinesque, 1817, as published in the combination *Hippa achiria* (Name No. 540) ;
- (b) *crocea* Rafinesque, 1814, as published in the combination *Squilla crocea* (Name No. 541) ;
- (c) *cruentatus* Linnaeus, 1758, as published in the combination *Cancer cruentatus* (Name No. 542) ;
- (d) *cubicus* Forskål, 1775, as published in the combination *Cancer cubicus* (Name No. 543) ;
- (e) *fasciatus* Rafinesque, 1814, as published in the combination *Mesapus fasciatus* (Name No. 544) ;
- (f) *fluviatilis* Rafinesque, 1814, as published in the combination *Symethus fluviatilis* (Name No. 545) ;
- (g) *fossor* Rafinesque, 1817, as published in the combination *Astacus fossor* (Name No. 546) ;
- (h) *heterochelus* Rafinesque, 1814, as published in the combination *Alciopé heterochelus* (Name No. 547) ;
- (i) *levigatus* Rafinesque, 1814, as published in the combination *Inachus levigatus* (Name No. 548) ;

- (j) *novemdecos* Sulzer, 1776, as published in the combination *Cancer novemdecos* (Name No. 549) ;
- (k) *pelagica* Rafinesque, 1817, as published in the combination *Nectoceras pelagica* (Name No. 550) ;
- (l) *portunoides* Rafinesque, 1814, as published in the combination *Cancer portunoides* (Name No. 551) ;
- (m) *pusilla* Rafinesque, 1817, as published in the combination *Ocypoda pusilla* (Name No. 552) ;
- (n) *quadricolor* Rafinesque, 1814, as published in the combination *Peneus quadricolor* (Name No. 553) ;
- (o) *rugosus* Rafinesque, 1817, as published in the combination *Nectylus rugosus* (Name No. 554) ;
- (p) *scaber* Rafinesque, 1814, as published in the combination *Byzenus scaber* (Name No. 555) ;
- (q) *striata* Rafinesque, 1814, as published in the combination *Aglaope striata* (Name No. 556) ;
- (r) *tomentosus* Rafinesque, 1814, as published in the combination *Inachus tomentosus* (Name No. 557) ;
- (s) *triadona* Rafinesque, 1814, as published in the combination *Squilla triadona* (Name No. 558) ;
- (t) *truncatulus* Rafinesque, 1817, as published in the combination *Pagurus truncatulus* (Name No. 559).

(10) The under-mentioned family-group names are hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Numbers severally specified below :—

- (a) ALBUNEIDAE (correction of ALBUNIDAE) Stimpson, 1858 (type genus : *Albunea* Weber, 1795) (Class Crustacea, Order Decapoda) (Name No. 242) ;

- (b) HOMOLIDAE White, 1847 (type genus : *Homola* Leach, 1815) (Class Crustacea, Order Decapoda) (Name No. 243) ;
- (c) STENOPODIDAE (correction of STENOPIDAE) Huxley, [1879] (type genus : *Stenopus* Latreille, 1819) (Class Crustacea, Order Decapoda) (Name No. 244) ;
- (d) MELICERTIDAE (correction of MELICERTADAE) Hudson & Gosse, 1886 (type genus : *Melicerta* Schrank, 1803) (Class Rotifera) (Name No. 245).

(11) The under-mentioned family-group names are hereby placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* with the Name Numbers severally specified below :—

- (a) ALBUNIDAE Stimpson, 1858 (type genus : *Albunea* Weber, 1795) (an Invalid Original Spelling for ALBUNEIDAE) (Name No. 276) ;
- (b) STENOPIDAE Huxley, [1879] (type genus : *Stenopus* Latreille, 1819) (an Invalid Original Spelling for STENOPODIDAE) (Name No. 277) ;
- (c) THELXIOPEIDAE Rathbun, 1937 (type genus : *Thelxiope* Rafinesque, 1814) (invalid under *Declaration 20* because name of type genus suppressed under the Plenary Powers in (1)(a) above) (Name No. 278) ;
- (d) MELICERTADAE Hudson & Gosse, 1886 (type genus *Melicerta* Schrank, 1803) (an Invalid Original Spelling for MELICERTIDAE) (Name No. 279).

I. THE STATEMENT OF THE CASE

On 26th October 1948 Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) addressed a preliminary communication to the Office of the Commission on the

question of the need for taking action in the interests of nomenclatorial stability in regard to a considerable number of names for genera and species of the Orders Decapoda and Stomatopoda (Class Crustacea) published by Rafinesque between 1814 and 1818, none of which were in current use, although many were senior synonyms of well-established names. A few months earlier the Thirteenth International Congress of Zoology, Paris, 1948, had supplemented the *Official List of Generic Names in Zoology* by establishing both an *Official List* for the names of species and also *Official Indexes* for rejected and invalid specific names. The rules governing these *Lists* and *Indexes* were published in 1950 and this made it possible to form a view as to the scope of the action needed in this and other cases then pending. On 1st May 1954 Dr. Holthuis submitted a formal application for the suppression under the Plenary Powers of the Rafinesque names referred to above. Even at that date there were however certain matters involved in the present case that were still outstanding and it was not until 11th July 1956 that the last of these questions was finally cleared up and the following application submitted to the Commission :—

Proposed suppression under the Plenary Powers (a) of certain names given by C. S. Rafinesque to genera and species of the Orders Decapoda and Stomatopoda (Class Crustacea) and (b) of certain names currently regarded as senior subjective synonyms of the names of the type species of the genera "Homola" and "Lissa", both of Leach, 1815, belonging to the foregoing Class

By L. B. HOLTHUIS

(*Rijksmuseum van Natuurlijke Historie, Leiden, Holland*)

New Decapoda and Stomatopoda are described or mentioned by C. S. Rafinesque in four of his numerous publications. These four papers are :

1814. *Précis des découvertes et travaux somiologiques de Mr. C. S. Rafinesque-Schmaltz. entre 1800 et 1814. Ou choix raisonné de ses principales Découvertes en Zoologie et en Botanique, pour servir d'introduction à ses ouvrages futurs* : 1—55.
1815. *Analyse de la Nature ou Tableau de l'Univers et des Corps organisés* : 1—224.

1817. "Synopsis of four New Genera and ten new Species of Crustacea, found in the United States. Museum of Natural Sciences. 9." *Amer. mon. Mag. crit. Rev.* 2 : 40—43.
1818. "Journal of the Academy of Natural Sciences of Philadelphia. Vol. i, Part I. Philadelphia. 8vo. pp. 220, and 9 plates. May to December, 1817." *Amer. mon. Mag. crit. Rev.* 3 : 269—274

2. The first of these papers contains the description of seventeen new species and eight new genera of Decapoda and two new species of Stomatopoda, all from Sicily. The second publication gives a classification of the Animal and Plant Kingdoms down to genera. Most of the new generic names given here by Rafinesque are *nomina nuda*, the exceptions being a few names, which he proposed to replace already published names. In the third paper ten new species of Decapod Crustacea from the United States are described, while two new generic names of Decapoda are mentioned. In the fourth publication two new names are proposed for Brachyuran genera. The carcinological names of Rafinesque generally have been overlooked and as far as I know only one generic and one specific name given by this author to Decapod Crustacea are used in modern carcinological literature. The following table gives the names of species and new genera of Decapod and Stomatopod Crustacea, used by Rafinesque in the four publications mentioned above, with the names, which in recent literature currently are employed for those species and genera.

<i>Names of Rafinesque</i>	<i>Current modern names</i>
<i>Acilius</i> Rafinesque, 1815 : 221 (substit. pro <i>Symethus</i> Rafinesque, 1814)	<i>Atyaephyra</i> De Brito Capello, 1867
<i>Aglaope</i> Rafinesque, 1814 : 24 (non Latreille, 1809)	<i>Lysmata</i> Risso, 1816
<i>Aglaope striata</i> Rafinesque, 1814 : 24	<i>Lysmata seticaudata</i> (Risso, 1816)
<i>Albunea symnista</i> (Linnaeus, 1758) Rafinesque, 1814 : 20	<i>Albunea carabus</i> (Linnaeus, 1758)
<i>Alciope</i> Rafinesque, 1814 : 24	<i>Pontonia</i> Latreille, 1829
<i>Alciope heterochelus</i> Rafinesque, 1814 : 24	<i>Pontonia flavomaculata</i> Heller, 1864
<i>Astacus ciliaris</i> Rafinesque, 1817 : 42	<i>Cambarus bartonii</i> (Fabricius, 1798)
<i>Astacus fossor</i> Rafinesque, 1817 : 42	<i>Cambarus diogenes</i> Girard, 1852
<i>Astacus limosus</i> Rafinesque, November, 1817 : 42	<i>Orconectes affinis</i> (Say, December, 1817)

<i>Names of Rafinesque</i>	<i>Current modern names</i>
<i>Astacus pusillus</i> Rafinesque, 1817 : 42	<i>Cambarus bartonii</i> (Fabricius, 1798)
<i>Astacus rugosus</i> Rafinesque, 1814 : 22	<i>Nephrops norvegicus</i> (Linnaeus, 1758)
<i>Byzenus</i> Rafinesque, 1814 : 23	<i>Stenopus</i> Latreille, 1819
<i>Byzenus scaber</i> Rafinesque, 1814 : 23	<i>Stenopus spinosus</i> Risso, 1827
<i>Cancer levifrons</i> Rafinesque, 1814 : 20	<i>Xantho poressa</i> (Olivi, 1792)
<i>Cancer portunoides</i> Rafinesque, 1814 : 20	<i>Bathynectes longipes</i> (Risso, 1816)
<i>Cancer villosissimus</i> Rafinesque, 1814 : 20	<i>Pilumnus hirtellus</i> (Linnaeus, 1758)
<i>Crangonus</i> Rafinesque, 1815 : 98 (substit. pro <i>Crangon</i> Fabricius, 1798)	<i>Crangon</i> Fabricius, 1798
<i>Cryptophtalmus</i> Rafinesque, 1814 : 23	<i>Alpheus</i> Fabricius, 1798
<i>Cryptophtalmus ruber</i> Rafinesque, 1814 : 23	<i>Alpheus glaber</i> (Olivi, 1792)
<i>Everne</i> Rafinesque, 1815 : 98 (substit. pro <i>Melicertus</i> Rafinesque, 1814)	<i>Penaeus</i> Fabricius, 1798
<i>Grapsus fluviatilis</i> (Herbst, 1785) Rafinesque, 1814 : 21	<i>Potamon edulis</i> (Latreille, 1818)
<i>Grapsus limosus</i> Rafinesque, November 1817 : 42	<i>Sesarma</i> (<i>Sesarma</i>) <i>reticulatum</i> (Say, September, 1817)
<i>Hippa achiria</i> (Mitchill MSS) Rafinesque, November, 1817 : 41 (by typographical error prin- ted as <i>Hippaachiria</i>)	<i>Emerita talpoida</i> (Say, November, 1817)
<i>Inachus levigatus</i> Rafinesque, 1814 : 21	<i>Acanthonyx lunulatus</i> (Risso, 1816)
<i>Inachus tomentosus</i> Rafinesque, 1814 : 21	<i>Pisa</i> prob. <i>tetraodon</i> (Pennant 1777)

<i>Names of Rafinesque</i>	<i>Current modern names</i>
<i>Lissula</i> Rafinesque, 1818 : 272	<i>Lissa</i> Leach, 1815
<i>Lupania</i> Rafinesque, 1818 : 272	<i>Portunus</i> Weber, 1795
<i>Melicertus</i> Rafinesque, 1814 : 22	<i>Penaeus</i> Fabricius, 1798
<i>Melicertus tigrinus</i> Rafinesque, 1814 : 22	<i>Penaeus kerathurus</i> (Forskål, 1775)
<i>Mesapus</i> Rafinesque, 1814 : 22	<i>Pontophilus</i> Leach, 1817
<i>Mesapus fasciatus</i> Rafinesque, 1814 : 23	<i>Pontophilus fasciatus</i> (Risso, 1816)
<i>Nectoceras</i> Rafinesque, 1817 : 41	[?] <i>Hippolyte</i> Leach, 1815
<i>Nectoceras pelagica</i> Rafinesque, 1817 : 41	[?] <i>Hippolyte coerulescens</i> (Fabricius, 1775)
<i>Nectylus</i> Rafinesque, 1817 : 41	<i>Emerita</i> Meuschen, 1778
<i>Nectylus rugosus</i> Rafinesque, November, 1817 : 41	<i>Emerita talpoida</i> (Say, November, 1817)
<i>Niphea</i> Rafinesque, 1815 : 98 (substit. pro <i>Aglaope</i> Rafinesque 1814)	<i>Lysmata</i> Risso, 1816
<i>Ocypoda fluviatilis</i> (Herbst, 1785) Rafinesque, 1814 : 21	<i>Potamon edulis</i> (Latreille, 1818)
<i>Ocypoda pusilla</i> Rafinesque, 1817 : 42	[?] <i>Uca pugnax</i> Smith, 1870
<i>Ocypoda unispinosa</i> Rafinesque, 1814 : 21	<i>Goneplax rhomboides</i> (Linnaeus, 1758)
<i>Pagurus granulatus</i> Rafinesque, 1814 : 22 (non Olivier, 1812)	<i>Pagurus alatus</i> Fabricius, 1775
<i>Pagurus truncatulus</i> Rafinesque, November, 1817 : 42	<i>Pagurus longicarpus</i> Say, December, 1817
<i>Peneus quadricolor</i> Rafinesque, 1814 : 22	<i>Gnathophyllum elegans</i> (Risso, 1816)
<i>Portunus menoides</i> Rafinesque, 1817 : 42	<i>Carcinus maenas</i> (Linnaeus, 1758)
<i>Squilla crocea</i> Rafinesque, 1814 : 25	<i>Lysiosquilla eusebia</i> (Risso, 1816)
<i>Squilla triodona</i> Rafinesque, 1814 : 24	<i>Pseudosquilla ferussaci</i> (Roux, 1830)

<i>Names of Rafinesque</i>	<i>Current modern names</i>
<i>Syllarus</i> Rafinesque, 1815 : 98 (substit. pro <i>Scyllarus</i> Fabricius, 1775)	<i>Scyllarus</i> Fabricius, 1775
<i>Symethus</i> Rafinesque, 1814 : 23	<i>Atyaephyra</i> De Brito Capello, 1867
<i>Symethus fluviatilis</i> Rafinesque, 1814 : 23	<i>Atyaephyra desmarestii</i> (Millet, 1831)
<i>Synnista</i> Rafinesque, 1815 : 98 (substit. pro <i>Albunea</i> Fabricius, 1798)	<i>Albunea</i> Weber, 1795
<i>Thelxiope</i> Rafinesque, 1814 : 21	<i>Homola</i> Leach, 1815
<i>Thelxiope palpigera</i> Rafinesque, 1814 : 21	<i>Homola barbata</i> (Fabricius, 1793)

3. If Rafinesque's names were to be accepted, the following generic names would have to be changed : *Atyaephyra* De Brito Capello, 1867, to *Symethus* Rafinesque, 1814 ; *Homola* Leach, 1815, to *Thelxiope* Rafinesque, 1814 ; *Lysmata* Risso, 1816, to *Niphea* Rafinesque, 1815 ; *Pontonia* Latreille, 1829, to *Alciope* Rafinesque, 1814 ; *Pontophilus* Leach, 1817, to *Mesapus* Rafinesque, 1814 ; *Stenopus* Latreille, 1819, to *Byzenus* Rafinesque, 1814. This is the more serious since *Homola* and *Stenopus* are the type genera of the families HOMOLIDAE and STENOPODIDAE respectively. In addition, a special problem would arise in connection with the generic name *Alciope* Rafinesque, 1814, which would replace the name *Pontonia* Latreille, 1829, a name which has already been placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 378 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 11 : 411—420) and is moreover the name of the type genus of the family-group taxon PONTONIINAE (correction of PONTONINAE) Kingsley, 1878, the name of which has been placed on the *Official List of Family-Group Names in Zoology* by the Ruling given in *Direction* 41 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 11 : 431—452).

4. In addition to the problems in connection with generic names discussed above, the acceptance of Rafinesque's names would involve the following changes at the specific-name level :—*Acanthonyx lunulatus* (Risso, 1816) would become *Acanthonyx levigatus* (Rafinesque, 1814) ; *Atyaephyra desmarestii* (Millet, 1831) would become *Symethus fluviatilis* Rafinesque, 1814 ; *Bathynectes longipes* (Risso, 1816) would become *Bathynectes portunoides* (Rafinesque, 1814) ; *Cambarus diogenes* Girard, 1852, would become *Cambarus fossor* (Rafinesque, 1817) ; *Gnathophyllum elegans* (Risso, 1816) would become *Gnathophyllum quadricolor* (Rafinesque, 1814) ; *Lysiosquilla eusebia* (Risso, 1816) would become *Lysiosquilla crocea* (Rafinesque, 1814) ;

Lysmata seticaudata (Risso, 1816) would become *Niphea striata* (Rafinesque, 1814); *Orconectes affinis* (Say, 1817) would become *Orconectes limosus* (Rafinesque, 1817); *Pagurus longicarpus* Say, 1817, would become *Pagurus truncatulus* Rafinesque, 1817; *Pontonia flavomaculata* Heller, 1864, would become *Alciope heterochelus* Rafinesque, 1814; *Pontophilus fasciatus* (Risso, 1816) would become *Mesapus fasciatus* Rafinesque, 1814; *Pseudosquilla ferussaci* (Roux, 1830) would become *Pseudosquilla triodona* (Rafinesque, 1814); *Stenopus spinosus* Risso, 1827, would become *Byzenus scaber* Rafinesque, 1814; *Uca pugnax* Smith, 1870, would become *Uca pusilla* (Rafinesque, 1817). Thus six generic and fourteen specific names would have to be changed if the scientific names proposed by Rafinesque were to be accepted. The changing of all these names would greatly upset carcinological nomenclature, the more so as the species involved generally are common taxa from thoroughly explored regions such as the Mediterranean and the American East Coast. I find that more than one hundred authors have used the generic name *Pontophilus*, eighty the name *Stenopus*, about the same number have used *Lysmata*, about seventy have used *Pontonia*, and fifty the name *Atyaephyra*. The specific name *desmarestii* for the species at present best known as *Atyaephyra desmarestii* has been used by about eighty authors, the name *seticaudata* of *Lysmata seticaudata* by about seventy authors, the name *elegans* of *Gnathophyllum elegans* by more than fifty authors, the name *spinosus* of *Stenopus spinosus* by about thirty authors, the name *eusebia* of *Lysiosquilla eusebia* by over twenty authors, and the names *flavomaculata* of *Pontonia flavomaculata*, and *ferussaci* of *Pseudosquilla ferussaci* each by about fifteen authors. Not enough data are at my disposal to give an approximate number of authors using the current names of the Brachyura and Anomura, but the number involved is also considerable. Only two of Rafinesque's names for Decapods are used by part of the modern authors. One of these names is the generic name *Thelxiope* Rafinesque, which Rathbun (1937, *Bull. U.S. nat. Mus.* 166 : 63) showed to be the oldest name for the genus *Homola* Leach, 1815; she has been followed by a few modern authors (Chace, 1940, *Torreia* 4 : 8; Gordon, 1950, *Sci. Rep. John Murray Exped.* 9(3) : 221; Barnard, 1950, *Ann. S. Afr. Mus.* 38 : 338), while Dr. Th. Monod of Dakar informs me that in his as yet unpublished monograph of the West African Crabs he also proposes to use the name *Thelxiope*. In the recent monographic account by Bouvier (1940, *Faune de France* 37 : 192) of the Decapoda Reptantia of the French coasts, the name *Homola* is still used, while several other authors do not accept Rafinesque's name. The specific compound *limosus* of *Astacus limosus* Rafinesque, is used by a number of authors for the species *Orconectes affinis* (Say). Ortmann (1905, *Proc. Amer. phil. Soc.* 44 : 107, 112, 131) was the first to point to the identity of Say's and Rafinesque's species and showed that Rafinesque's name was published one month before that of Say, so that the name *limosus* has priority and should be used. Most American authors at present follow Ortmann. None of the other generic or specific names proposed by Rafinesque for

Decapoda and Stomatopoda has ever been accepted. They have been mentioned in a footnote or in a short remark in some of the more or less monographic works of the first half of the last century, e.g. by Desmarest (1825, *Consid. gén. Class. Crust.* 134, 214—216) and by H. Milne Edwards (1837, *Hist. nat. Crust.* 2 : 49, 408, 420, 430, 431); but they have not been adopted by those, or by any subsequent, authors.

5. In my opinion it is desirable, in order to avoid very serious confusion in carcinological nomenclature, to suppress all the overlooked names of Crustacea Decapoda and Stomatopoda proposed in the works of Rafinesque. Since the generic name *Thelxiope* Rafinesque is used by several American authors and generally is neglected by European workers, I asked Dr. Fenner A. Chace, Jr., Curator of the Division of Marine Invertebrates of the U.S. National Museum at Washington, D.C., for his opinion on this question. Dr. Chace answered as follows :—“As far as your suggestion to apply to the Commission for suppression of this name is concerned, I have no objections. After all, *Thelxiope* has been resurrected fairly recently and has not yet become firmly entrenched in the literature.” Dr. Isobel Gordon concerning the name *Thelxiope* wrote me as follows :—“I reluctantly used *Thelxiope* in my “John Murray” Report. I favour suppressing that with the other Rafinesque names.” Dr. Th. Monod, on the other hand, favours the retention of *Thelxiope* :—“J’ai suivi Rathbun dans mes crabes ouest-africains et utilisé *Thelxiope*. Je serais donc, en principe, en faveur d’une nouvelle exception en sa faveur, à la demande de suppression générale des noms de Rafinesque.” M. J. Forest (*Muséum National d’Histoire naturelle, Paris*) has also expressed himself (*in litt.*) as being, opposed to the suppression of *Thelxiope* :—“Je crois que la majorité des carcinologistes ont repris *Thelxiope* Rafinesque. Suivons les . . . mais je regrette que Rathbun ait ressuscité ce nom.” Dr. R. Zariquiey Alvarez of Barcelona has informed me (*in litt.*) that he prefers to use the name *Homola*, though he would not oppose its substitution by *Thelxiope* if most other carcinologists are in favour of validating the latter name. Dr. H. Balss, of München, has informed me (*in litt.*) :—“auch ich verwende den Namen *Thelxiope* nicht, sondern bleibe bei *Homola*.” Personally, I believe that the suppression of the name *Thelxiope* is to be preferred, *Homola* being a widely used name, while *Thelxiope* has only recently been reintroduced. Furthermore, if in connection with the name *Thelxiope* the Priority Principle is strictly adhered to, this course will have to be followed also with the specific name of the type species of that genus, which is at present currently known as *Homola barbata* (Fabricius, 1793), but which possesses two senior synonyms, which until now have always been overlooked by carcinologists and the suppression of which is here requested. Since the specific compound *limosus* of the name *Orconectes limosus* (Rafinesque) is at present widely accepted in American literature and is even used in European publications, there would seem to be no advantage in suppressing this name. Consequently I ask here for the

suppression of all generic and specific names for Decapod and Stomatopod Crustacea proposed by Rafinesque with the sole exception of the just mentioned specific name *limosus*.

6. It may be emphasised here that the suppression of Rafinesque's names is not asked because of the poor quality of his work, but because of the fact that, contrary to the *Règles*, these names have never been accepted by contemporary and later carcinologists. Doing justice to this too little appreciated author would involve so many changes in carcinological nomenclature that it seems best to continue the practice of not using his names. The fact that so many of the descriptions make it possible to identify Rafinesque's species is sufficient evidence that he was not as poor a systematist as he has often said to have been.

7. Only one of Rafinesque's Decapod genera has been made the type genus of a family. This genus is *Thelxiope* Rafinesque, 1814. The rather complicated synonymy of this family group name is the following :—

THELXIOPÉDÉS Leach, 1819, *Dict. Sci. nat.* **13** : 512

THELXIOPÉDÉES Desmarest, 1823, *Dict. Sci. nat.* **28** : 252

HOMOLIENS H. Milne Edwards, 1837, *Hist. nat. Crust.* **2** : 167, 180

HOMOLIDAE White, 1847, *List Crust. Brit. Mus.* : 55

THELXIOPEIDEA Rathbun, 1937, *Bull. U.S. nat. Mus.* **166** : 61

THELXIOPEIDAE Rathbun, 1937, *Bull. U.S. nat. Mus.* **166** : 62

The first three names are vernacular names and thus have no nomenclatorial standing. The name HOMOLIDAE White, 1847, is the first available name for the family group to which the genus *Homola* belongs, and the currently accepted family name HOMOLIDAE thus is a valid name.

8. Two more questions have to be considered before the status of the Rafinesque names can be finally settled by the Commission. These questions concern the names of the type species of the genera *Homola* Leach, 1815, and *Lissa* Leach, 1815, the insertion of which in the *Official List* is requested here.

9. The type species of the genus *Homola* Leach, 1815, is *Homola spinifrons* Leach (1815, *Trans. linn. Soc. Lond.* **11** : 324), a species which is currently known by the name *Homola barbata* (Fabricius, 1793), *Cancer barbatus* Fabricius being a senior subjective synonym of *Homola spinifrons* Leach. A study of the literature reveals, however, that *Cancer barbatus* Fabricius, 1793 (*Ent. syst.* **2** : 460) is not the oldest available name for this species. Both the names *Cancer cubicus*

Forskål, 1775 (*Descript. Anim.* : 89) and *Cancer novemdecos* Sulzer, 1776 (*Abgekürzte Gesch. Ins.* : 265, pl. 31. fig. 4) prove to be senior subjective synonyms of *Cancer barbatus* Fabricius. As far as is known to me neither the specific name *cubicus* Forskål nor the name *novemdecos* Sulzer has ever been used for the species in question during the last 150 years. During that period the species has been indicated by most authors either as *Homola barbata* or as *Homola spinifrons*. The latter name gradually disappeared, and *barbata* is the specific name which is used in all modern handbooks. The replacement of this well-known and widely-used name by the long-forgotten name *cubicus* Forskål would badly upset the nomenclatorial stability of the group and would cause serious confusion. This could, however, be prevented by the suppression under the Plenary Powers of the names *cubicus* and *novemdecos*.

10. The problem concerning the name for the type species of the genus *Lissa* Leach is very similar. The type species of this genus is *Cancer chiragra* Fabricius, 1775 (*Syst. Ent.* : 409). The specific name *chiragra* Fabricius is widely used to denote the species and as far as I can ascertain, it is the only name that has been used for it since the introduction of the generic name *Lissa*. There can be little doubt, however, that the name *Cancer chiragra* Fabricius, 1775, is a junior subjective synonym of *Cancer cruentatus* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 630). The name *cruentatus* Linnaeus was used by one or two authors in the eighteenth century but has since been entirely overlooked. There seems to be little sense in resurrecting this long-forgotten name, even though it was introduced by Linnaeus for a species which was described in such a way by this great Swedish author that it still is recognisable from the original description.

11. Both Dr. Isobel Gordon of the British Museum (Natural History), London, and Dr. R. Zariquiey Alvarez of Barcelona, have informed me that they are in favour of the use of the Plenary Powers to save the names *barbata* (in the case dealt with in paragraph 9 above) and *chiragra* Fabricius (in the case dealt with in paragraph 10). On the other hand Dr. Th. Monod of Dakar and M. J. Forest of Paris favour here the strict application of the normal provisions of the *Règles*. Concerning the name *chiragra* Fabricius Dr. Monod (*in litt.*) has remarked "L'avantage du retour à un nom linnéen est que l'on atteint un *terminus ad quem* qui garanti contre tout danger ultérieur de modification nouvelle". Though I agree with the principle underlying Dr. Monod's remark, I believe that by being placed on the *Official List* under the Plenary Powers of the Commission, the name *chiragra* Fabricius would be even better safe-guarded against change than would the above Linnean name. Personally, therefore, I am in favour of the use of the Plenary Powers both in the case of *Cancer barbatus* Fabricius and of *Cancer chiragra* Fabricius.

12. The concrete proposals which I now submit for consideration are that the International Commission on Zoological Nomenclature should :—

(1) use its Plenary Powers :—

(a) to suppress the undermentioned generic names for the purposes of the Law of Priority but not for those of the Law of Homonymy :—

- (i) *Acilius* Rafinesque, 1815, *Anal. Nat.* : 221 (substitute name for *Symethus* Rafinesque, 1814, *Préc. Découv. somiol.* : 23) (type species, by monotypy through *Symethus* Rafinesque : *Symethus fluviatilis* Rafinesque, 1814, *Préc. Découv. somiol.* : 23) ;
- (ii) *Alciope* Rafinesque, 1814, *Préc. Découv. somiol.* : 24 (type species, by monotypy : *Alciope heterochelus* Rafinesque, 1814, *Préc. Découv. somiol.* : 24) ;
- (iii) *Byzenus* Rafinesque, 1814, *Préc. Découv. somiol.* : 23 (type species, by monotypy : *Byzenus scaber* Rafinesque, 1814, *Préc. Découv. somiol.* : 23) ;
- (iv) *Mesapus* Rafinesque, 1814, *Préc. Découv. somiol.* : 22 (type species, by monotypy : *Mesapus fasciatus* Rafinesque, 1814, *Préc. Découv. somiol.* : 23) ;
- (v) *Nectoceras* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 41 (type species, by monotypy : *Nectoceras pelagica* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 41) ;
- (vi) *Niphea* Rafinesque, 1815, *Analyse Nature* : 98 (substitute name for *Aglaope* Rafinesque, 1814, *Préc. Découv. somiol.* : 24) (type species, by monotypy through *Aglaope* Rafinesque : *Aglaope striata* Rafinesque, 1814, *Préc. Découv. somiol.* : 24) ;
- (vii) *Symethus* Rafinesque, 1814, *Préc. Découv. somiol.* : 23 (type species by monotypy : *Symethus fluviatilis* Rafinesque, 1814, *Préc. Découv. somiol.* : 23) ;
- (viii) *Thelxiope* Rafinesque, 1814, *Préc. Découv. somiol.* : 21 (type species, by monotypy : *Thelxiope palpigera* Rafinesque, 1814, *Préc. Découv. somiol.* : 21) ;

(b) to suppress the under-mentioned specific names for the purposes of the Law of Priority but not for those of the Law of Homonymy :—

- (i) *achiria* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 41, as published in the combination *Hippa achiria* ;
- (ii) *crocea* Rafinesque, 1814, *Préc. Découv. somiol.* : 25, as published in the combination *Squilla crocea* ;
- (iii) *cruentatus* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 630, as published in the combination *Cancer cruentatus* ;
- (iv) *cubicus* Forskål, 1775, *Descrip. Anim.* : 89, as published in the combination *Cancer cubicus* ;
- (v) *fasciatus* Rafinesque, 1814, *Préc. Découv. somiol.* : 23, as published in the combination *Mesapus fasciatus* ;
- (vi) *fluviatilis* Rafinesque, 1814, *Préc. Découv. somiol.* : 23, as published in the combination *Symethus fluviatilis* ;
- (vii) *fossor* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 42, as published in the combination *Astacus fossor* ;
- (viii) *heterochelus* Rafinesque, 1814, *Préc. Découv. somiol.* : 24, as published in the combination *Alciope heterochelus* ;
- (ix) *levigatus* Rafinesque, 1814, *Préc. Découv. somiol.* : 21, as published in the combination *Inachus levigatus* ;
- (x) *novemdecos* Sulzer, 1776, *Abgekürzte Gesch. Ins.* : 265, as published in the combination *Cancer novemdecos* ;
- (xi) *pelagica* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 41, as published in the combination *Nectoceras pelagica* ;
- (xii) *portunooides* Rafinesque, 1814, *Préc. Découv. somiol.* : 20, as published in the combination *Cancer portunooides* ;
- (xiii) *pusilla* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* 2 : 42, as published in the combination *Ocypoda pusilla* ;

- (xiv) *quadricolor* Rafinesque, 1814, *Préc. Découv. somiol.* : 22, as published in the combination *Peneus quadricolor* ;
- (xv) *rugosus* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* **2** : 41, as published in the combination *Nectylus rugosus* ;
- (xvi) *scaber* Rafinesque, 1814, *Préc. Découv. somiol.* : 23, as published in the combination *Byzenus scaber* ;
- (xvii) *striata* Rafinesque, 1814, *Préc. Découv. somiol.* : 24, as published in the combination *Aglaope striata* ;
- (xviii) *tomentosus* Rafinesque, 1814, *Préc. Découv. somiol.* : 21, as published in the combination *Inachus tomentosus* ;
- (xix) *triadona* Rafinesque, 1814, *Préc. Découv. somiol.* : 24, as published in the combination *Squilla triadona* ;
- (xx) *truncatulus* Rafinesque, 1817, *Amer. monthly Mag. crit. Rev.* **2** : 42, as published in the combination *Pagurus truncatulus* ;

(2) to place the under-mentioned generic names on the *Official List of Generic Names in Zoology* :—

- (a) *Atyaephyra* de Brito Capello, 1867, *Mem. Acad. Sci. Lisboa, Sci. mat. phys. nat. (n. ser.)* **4**(1)(7) : 5 (gender : feminine) (type species, by monotypy : *Atyaephyra rosiana* de Brito Capello, 1867, *Mem. Acad. Sci. Lisboa, Sci. mat. phys. nat. (n. ser.)* **4**(1)(7) : 6 (a junior subjective synonym of *Hippolyte desmarestii* Millet, 1831, *Mém. Soc. Agric. Sci. Angers* **1** : 56) ;
- (b) *Homola* Leach, 1815, *Trans. linn. Soc. Lond.* **11** : 324 (gender : feminine) (type species, by monotypy : *Homola spinifrons* Leach, 1815, *Trans. linn. Soc. Lond.* **11** : 324 (a junior subjective synonym of *Cancer barbatus* Fabricius, 1793, *Ent. syst.* **2** : 460)¹ ;
- (c) *Lysmata* Risso, 1816, *Hist. nat. Crust. Nice* : 175 (substitute name for *Melicerta* Risso, 1816, *Hist. nat. Crust. Nice* : 109, an invalid junior homonym of *Melicerta* Schrank, 1803) (gender : feminine) (type species, by selection by

¹ See paragraph 9 of the present application on the question of the oldest available name for the type species of this genus.

Milne Edwards (H.), 1837 (Cuvier's *Règne Anim.* (ed. 4, Disciples ed.) 18 : pl. 54, fig. 3) : *Melicerta seticaudata* Risso, 1816, *Hist. nat. Crust. Nice* : 110) ;

- (d) *Pontophilus* Leach, 1817, *Malac. Podophth. Brit.* (15) : expl. of Pl. 37A (gender : masculine) (type species, by monotypy : *Crangon spinosus* Leach, 1815, *Trans. linn. Soc. Lond.* **11** : 346) ;
- (e) *Stenopus* Latreille, 1819, *Nouv. Dict. Hist. nat.* (ed. 2) **30** : 71 (gender : masculine) (type species, by monotypy : *Palaemon hispidus* Olivier, 1811, *Ency. méth. Hist. nat.* **8** : 666)² ;
- (f) *Albunea* Weber, 1795, *Nomencl. ent. Fabr.* : 94 (gender : feminine) (type species, by present selection by Holthuis (L.B.) : *Cancer symmysta* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 630) ;
- (g) *Lissa* Leach, 1815, *Zool. Miscell.* **2** : 69 (gender : feminine) type species, by monotypy : *Cancer chiragra* Fabricius (J.C.), 1775, *Syst. Ent.* : 409)³.

(3) to place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—

- (a) *barbatus* Fabricius, 1793, *Ent. syst.* **2** : 460, as published in the combination *Cancer barbatus* ;
- (b) *chiragra* Fabricius, 1775, *Syst. Ent.* : 409, as published in the combination *Cancer chiragra* ;
- (c) *desmarestii* Millet, 1831, *Mém. Soc. Agric. Sci. Angers* **1** : 56, as published in the combination *Hippolyte desmarestii* ;
- (d) *diogenes* Girard, 1852, *Proc. Acad. nat. Sci. Phila.* **6** : 88, as published in the combination *Cambarus diogenes* ;
- (e) *elegans* Risso, 1816, *Hist. nat. Crust. Nice* : 92, as published in the combination *Alpheus elegans* ;
- (f) *eusebia* Risso, 1816, *Hist. nat. Crust. Nice* : 115, as published in the combination *Squilla eusebia* ;
- (g) *fasciatus* Risso, 1816, *Hist. nat. Crust. Nice* : 82, as published in the combination *Crangon fasciatus* ;

² The specific name of the type species of this genus has already been placed on the *Official List* by the Ruling given in *Opinion* 381.

³ See paragraph 10 of the present application on the question of the oldest available name for the type species of this genus.

- (h) *ferussaci* Roux, 1830, *Crust. Méditerr.* : pl. 28, as published in the combination *Squilla ferussaci* ;
- (i) *flavomaculata* Heller, 1864, *Verh. zool.-bot. Ges. Wien* **14** : 51, as published in the combination *Pontonia flavomaculata* ;
- (j) *longicarpus* Say, 1817, *Journ. Acad. nat. Sci. Philad.* **1(8)** : 163, as published in the combination *Pagurus longicarpus* ;
- (k) *longipes* Risso, 1816, *Hist. nat. Crust. Nice* : 30, as published in the combination *Portunus longipes* ;
- (l) *lunulata* Risso, 1816, *Hist. nat. Crust. Nice* : 49, as published in the combination *Maia lunulata* ;
- (m) *pugnax* Smith, 1870, *Trans. Connect. Acad. Arts Sci.* **2** : 131, as published in the combination *Gelasimus pugnax* ;
- (n) *seticaudata* Risso, 1816, *Hist. nat. Crust. Nice* : 110, as published in the combination *Melicerta Seti Caudata* [sic.] ;
- (o) *spinosus* Leach, 1815, *Trans. linn. Soc. Lond.* **11** : 346, as published in the combination *Crangon spinosus* (specific name of type species of *Pontophilus* Leach, 1817) ;
- (p) *spinosus* Risso, 1827, *Hist. nat. Europ. mérid.* **5** : 66, as published in the combination *Stenopus spinosus* ;
- (q) *symmysta* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 630, as published in the combination *Cancer symmysta* (specific name of type species of *Albunea* Weber, 1795) ;
- (r) *talpoida* Say, 1817, *J. Acad. nat. Sci. Philad.* **1(7)** : 160, as published in the combination *Hippa talpoida* ;
- (4) to place the under-mentioned generic names on the *Official Index of Rejected and Invalid Names in Zoology* :—
- (a) the eight generic names suppressed under (1)(a)(i) to (1)(a)(viii) inclusive, above ;
- (b) *Aglaope* Rafinesque, 1814, *Préc. Découv. somiol.* : 24 (type species, by monotypy : *Aglaope striata* Rafinesque, 1814, *Préc. Découv. somiol.* : 24), a junior homonym of *Aglaope* Latreille, 1809, *Gen. Crust. Ins.* **4** : 214 ;
- (c) *Crangonus* Rafinesque, 1815, *Analyse Nature* : 98 (a junior objective synonym of *Crangon* Fabricius, 1798) ;
- (d) *Lissula* Rafinesque, 1818, *Amer. mon. Mag. crit. Rev.* **2** : 272. (a junior objective synonym of *Lissa* Leach, 1815) ;
- (e) *Lupania* Rafinesque, 1818, *Amer. mon. Mag. crit. Rev.* **2** : 272 (a junior objective synonym of *Portunus* Weber, 1795,

the name of a genus placed on the *Official List* by the Ruling given in *Opinion 394*);

- (f) *Syllarus* Rafinesque, 1815, *Analyse Nature* : 98 (a junior objective synonym of *Scyllarus* Fabricius, 1775);
- (g) *Symathus* Rafinesque, 1815, *Analyse Nature* : 98 (an Erroneous Subsequent Spelling for *Symethus* Rafinesque, 1814);
- (h) *Symnista* Rafinesque, 1815, *Analyse Nature* : 98 (a junior objective synonym of *Albunea* Weber, 1795);

(5) to place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the twenty specific names suppressed under (1)(b)(i) to (1)(b)(xx) (inclusive) above;

(6) to place on the *Official List of Family-Group Names in Zoology* the following names :—

- (a) ALBUNEIDAE (correction by Miers (1878, *J. linn. Soc. Lond., Zool.* **14** : 315) of ALBUNIDAE) Stimpson, 1858, *Proc. Acad. nat. Sci. Philad.* **1858** : 230 (type genus : *Albunea* Weber, 1795);
- (b) HOMOLIDAE White, 1847, *List Crust. Brit. Mus.* : 55 (type genus : *Homola* Leach, 1815);
- (c) STENOPODIDAE (correction by Smith & Weldon (1909, in Harmer & Shipley, *Cambridge nat. Hist.* **4** : 162) of STENOPIIDAE) Huxley, 1879, *Proc. zool. Soc. Lond.* **1878** : 785 (type genus : *Stenopus* Latreille, 1819).

(7) to place on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* the following names :—

- (a) STENOPIIDAE Huxley, [1879], *Proc. zool. Soc. Lond.* **1878** : 785 (an Invalid Original Spelling for STENOPODIDAE);
- (b) THELXIOPEIDAE Rathbun, 1937, *Bull. U.S. nat. Mus.* **166** : 62 (suppressed under the Plenary Powers automatically under *Declaration 20* through the suppression under those Powers of the name of its type genus *Thelxiope* Rafinesque, 1814, as proposed in (1)(a)(viii) above).

II. THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : Upon the receipt in 1948 of Dr. Holthuis's preliminary communication in regard

to the present case, the problems so involved were allotted the Registered Number Z.N.(S.) 374.

3. Comments received prior to publication : Particulars were given by Dr. Holthuis in paragraph 11 of his application of comments received from certain specialists in regard to two of the names covered by his proposals. The names concerned were :—(a) *barbatus* Fabricius, 1793, as published in the combination *Cancer barbatus*, which it was desired to validate by the suppression under the Plenary Powers of the specific names *cubicus* Forskål, 1775, as published in the combination *Cancer cubicus*, and *novemdecos* Sulzer, 1776, as published in the combination *Cancer novemdecos* ; (b) *chiragra* Fabricius, 1775, as published in the combination *Cancer chiragra*, which it was desired to validate by the suppression under the Plenary Powers of *cruentatus* Linnaeus, 1758, as published in the combination *Cancer cruentatus*. As regards these names Dr. Holthuis explained that the action recommended in his application was supported by Dr. Isobel Gordon (*British Museum (Natural History), London*), and by R. Zariquiey Alvarez (*Barcelona, Spain*), but was objected to by M. J. Forest (*Muséum National d'Histoire Naturelle, Paris*) and by Dr. Th. Monod (*Institut Français d'Afrique Noire, Dakar, West Africa*).

4. Publication of the present application : The present application was sent to the printer on 13th July 1956 and was published on 28th September of that year in Part 9 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Holthuis, 1956, *Bull. zool. Nomencl.* 12 : 227—239).

5. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 28th September 1956 (a) in Part 9 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which Dr. Holthuis's application was published) and (b) to the other prescribed serial

publications. In addition, such Notice was given to four general zoological serial publications.

6. No Objection Received : No objection to the action proposed in the present case was received from any source.

7. Report by the Secretary on certain supplementary matters arising in the present case : On 28th March 1957 Mr. Hemming as Secretary executed the following Minute containing a Report on certain matters arising on the present case on which supplementary recommendations would, in his opinion, need to be placed before the Commission at the time when the Voting Paper on Dr. Holthuis's application was issued for decision :—

Report on certain supplementary matters on which recommendations require to be submitted to the Commission with the Voting Paper on Dr. L. B. Holthuis's application relating to the suppression under the Plenary Powers of certain names for genera and species of the Class Crustacea published by Rafinesque in the period 1814—1818

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present Minute is to place on record certain matters which arise in connection with, but were not dealt with in Dr. L. B. Holthuis's application for the suppression under the Plenary Powers of certain names for genera and species of the Class Crustacea published by Rafinesque in the period 1814—1818, on which therefore it will be necessary to submit supplementary recommendations to the International Commission at the time of the issue of the Voting Paper on Dr. Holthuis's application. Particulars of the names in question are given below.

2. The generic name *Lysmata* Risso, 1816, recommended by Dr. Holthuis for addition to the *Official List of Generic Names in Zoology* is, as stated in the application, a substitute name for the name *Melicerta* Risso, 1816 (*Hist. nat. Crust. Nice* : 109), which is invalid as a junior homonym of *Melicerta* Schrank, 1803 (*Fauna boica* 3(2) : 302, 310), the name of a well-known genus of the Class Rotifera. The point bearing directly on Dr. Holthuis's application which calls for attention

is that by some oversight the invalid name *Melicerta* Risso, 1816, was not there included in the list of names recommended for addition to the *Official Index of Rejected and Invalid Generic Names in Zoology*.

3. The next point to be noted is that in addition to the name *Melicerta* Risso, 1816, there are three other junior homonyms of the name *Melicerta* Schrank, 1803, which under the "Completeness-of-Opinions" Rule should now be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*. The names concerned are the following:—

- (a) *Melicerta* Péron & Lesueur, 1810, *Ann. Mus. Hist. nat.*, Paris 14(83) : 352 (Coelenterata)
- (b) *Melicerta* Tilesius, 1831, *Nova. Acta Acad. Caes. Leop. Carol.* 15(2) : 257 (Coelenterata)
- (c) *Melicerta* Stephens, 1833, *Nom. Brit. Ins.* (ed. 2) : 129 (Hymenoptera) [also *id.*, 1835, *Ill. Brit. Ent.* (Mand. 7) :94]

4. The next name to be considered is the name *Melicerta* Schrank, 1803, which under the "Completeness-of-Opinions" Rule should, as the name of an important genus involved in the present case, now be placed on the *Official List of Generic Names in Zoology*. The word *Melicerta* is a classical word, being the name of the son of Ino and Athamas and there is therefore a strong initial presumption that the generic name *Melicerta* Schrank should be treated as being masculine in gender. Professor L. W. Grensted, the Commission's Consulting Classical Adviser, has been consulted on this matter and has confirmed (*in litt.*, 28th March 1957) that the masculine gender is the correct gender for this generic name. His report on this subject is as follows:— "Yes, as you say, the gender of *Melicerta* Schrank must be masculine. It is one of a whole group of masculine names (and other nouns) in "-a" based on Greek words in "ης", in this case the word *Μελικέρτης* which are of masculine gender in the Greek." It is evident therefore that, when this name is placed on the *Official List*, the gender to be attributed to it must be the masculine gender.

5. The type species of the genus *Melicerta* Schrank, 1803, is by monotypy the nominal species *Sabella ringens* Linnaeus, 1767 (*Syst. Nat.* (ed. 12) 1(2) : 1268). The specific name *ringens* Linnaeus, 1767, as published in the above combination, will need therefore to be placed on the *Official List of Specific Names in Zoology*, when the name *Melicerta* Schrank, 1803, is placed on the *Official List of Generic Names in Zoology*.

6. Finally, it must be noted that the genus *Melicerta* Schrank is the type genus of the family MELICERTIDAE. This name is one of many years' standing but the date when it was first published has not yet been finally established. At the present time therefore all that it is

possible to do is to take note that the above family-group name will need to be placed on the *Official List of Family-Group Names in Zoology* at the same time that the generic name *Melicerta* Schrank is placed on the *Official List of Generic Names in Zoology*.

7. In the light of the particulars set out above it is now possible to summarise as follows the supplementary recommendations which will need to be submitted to the Commission at the time of the issue of the Voting Paper on Dr. Holthuis's Application Z.N.(S.) 374 :—

(1) The under-mentioned generic names, each of which is a junior homonym of *Melicerta* Schrank, 1803, to be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

(a) *Melicerta* Péron & Lesueur, 1810

(b) *Melicerta* Risso, 1816 ;

(c) *Melicerta* Tilesius, 1831 ;

(d) *Melicerta* Stephens, 1833 ;

(2) The under-mentioned generic name in the Class Rotifera to be placed on the *Official List of Generic Names in Zoology* :—

Melicerta Schrank, 1803 (gender : masculine) (type species, by monotypy : *Sabella ringens* Linnaeus, 1767)

(3) The under-mentioned specific name to be placed on the *Official List of Specific Names in Zoology* :—

ringens Linnaeus, 1767, as published in the combination *Sabella ringens* (specific name of type species of *Melicerta* Schrank, 1803)

(4) The under-mentioned family-group name to be placed on the *Official List of Family-Group Names in Zoology* :—

MELICERTIDAE [author and date now being investigated]
(type genus : *Melicerta* Schrank, 1803).

III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

8. Issue of Voting Paper V.P.(57)34 : On 4th April 1957 a Voting Paper (V.P.(57)34) was issued in which the Members of

the Commission were invited to vote either for, or against, "the proposal relating to certain names for Decapod and Stomatopod Crustacea published by Rafinesque (C.S.), as set out in Points (1) to (7) on pages 234—239 of Volume 12 of the *Bulletin of Zoological Nomenclature* [i.e. in the Points numbered as above in paragraph 12 of the application reproduced in the first paragraph of the present *Opinion*], subject to the minor adjustments specified in Note 4 overleaf" [in which were summarised the supplementary recommendations set out in paragraph 7 of the Minute by the Secretary dated 28th March 1957 reproduced in paragraph 6 of the present *Opinion*].

9. Withdrawal from the scope of Voting Paper V.P.(57)34 of the proposal for the addition to the "Official List of Specific Names in Zoology" of the specific name "elegans" Risso, 1816, as published in the combination "Alpheus elegans": On 20th June 1957 Mr. Hemming as Secretary executed the following Minute giving directions for the withdrawal from the scope of Voting Paper V.P.(57)34 of the proposal for the addition to the *Official List of Specific Names in Zoology* of the specific name *elegans* Risso, 1816, as published in the combination *Alpheus elegans* :—

Withdrawal from the scope of the proposals submitted with Voting Paper V.P.(57)34 of the proposal for the addition to the "Official List of Specific Names in Zoology" of the specific name "elegans" Risso, 1816, as published in the combination "Alpheus elegans" (Class Crustacea)

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

In anticipation of the action which will be required at the close of the Prescribed Voting Period in respect of the vote on Voting Paper V.P.(57)34 relating to the application by Dr. L. B. Holthuis for the addition of a number of generic names of Macrura Reptantia (Class Crustacea) to the *Official List of Generic Names in Zoology* and matters incidental thereto, a routine check has been carried out of the individual proposals comprised in the foregoing application. This has brought to light the fact that one of the specific names there recommended for addition to the *Official List of Specific Names in Zoology* has already been placed on that *List* under a Ruling given in a previous *Opinion*. The name concerned is *elegans* Risso, 1816, as published in the combination *Alpheus elegans*. This name, it has now been found, was

placed on the above *List* as Name Number 1186 by the Ruling given in *Opinion* 470.⁴

2. In the circumstances, which it is regretted should have arisen, I now, as Secretary, hereby withdraw from the scope of the proposals submitted with Voting Paper V.P.(57)34 the proposal that the specific name *elegans* Risso, 1816, as published in the combination *Alpheus elegans*, be placed on the *Official List of Specific Names in Zoology*.

10. The Prescribed Voting Period : As Voting Paper (V.P.(57)34) in this case was issued under the Three-Month Rule, the Prescribed Voting Period closed on 4th July 1957.

11. Particulars of the Voting on Voting Paper V.P.(57)34 : At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)34 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-five (25) Commissioners (arranged in the order in which Votes were received) :*

Hering ; Lemche ; Vokes ; Prantl ; Bonnet ; Esaki ; Hankó ; Holthuis ; Jaczewski ; Boschma ; Dymond ; Bodenheimer ; Tortonese ; Key ; do Amaral ; Riley ; Bradley (J.C.) ; Stoll ; Hemming ; Mertens ; Sylvester-Bradley ; Cabrera⁵ ; Mayr ; Kühnelt ; Miller ;

(b) *Negative Votes :*

None ;

⁴ *Opinion* 470 was published on 14th June 1957 (*Ops. Decls. int. Comm. zool. Nomencl.* 16 : 129—203).

⁵ In returning his Voting Paper on this case Commissioner Cabrera said that he agreed very readily with Dr. Holthuis's views on Rafinesque's names but was unable to vote for the suppression under the Plenary Powers of the specific name *cruentatus* Linnaeus, 1758, as published in the combination *Cancer cruentatus* ; the 10th edition of the *Systema Naturae* was the cornerstone of zoological nomenclature and every name in it, if clearly recognisable (as was *cruentatus* in the present case) ought to be respected.

(c) *Voting Papers not returned* :

None.

12. Declaration of Result of Vote : On 5th July 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)34, signed a Certificate that the Votes cast were as set out in paragraph 11 above and declaring that, save as respects the item withdrawn from the scope of the foregoing Voting Paper by the Minute executed by the Secretary on 20th June 1957 (the text of which has been reproduced in paragraph 9 of the present *Opinion*), the proposals submitted in the said Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

13. Rectification of two minor omissions in the application submitted in the present case : On 5th July 1957 Mr. Hemming, as Secretary, executed the following Minute containing directions for the rectification of two minor omissions in the application submitted in the present case to which attention had been drawn by Members of the Commission during the Prescribed Voting Period for Voting Paper V.P.(57)34 :—

Action required on two minor omissions in the Application Z.N.(S.) 374 regarding the proposed suppression of certain names for Decapod and Stomatopod Crustacea published by Rafinesque in 1814—1818 submitted by Dr. L. B. Holthuis

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

During the Prescribed Voting Period on Voting Paper V.P.(57)34 two members of the Commission drew attention to minor omissions in the application submitted by Dr. L. B. Holthuis for the suppression under the Plenary Powers of certain names for Decapod and Stomatopod Crustacea published by Rafinesque in the period 1814—1818 on which action is required under the "Completeness-of-Opinions" Rule. Particulars of the points so raised are given below.

2. In a note dated 19th May 1957 attached to his copy of Voting Paper V.P.(57)34 Commissioner K. H. L. Key (*Canberra, Australia*) drew attention to the fact that it was stated in the present application (: 231⁶) that the specific name *limosus* Rafinesque, 1817 (*Amer. mon. Mag.* 2(1) : 42), as published in the combination *Astacus limosus*, was the oldest available name for the taxon concerned and that it was in use by various authors and that in consequence it was not included in the list of names recommended for suppression under the Plenary Powers, but that this name had not been included among those which it was recommended for addition to the *Official List of Specific Names in Zoology*. Dr. Key considered that this omission should be made good. This suggestion was communicated by the Secretary to Dr. Holthuis on 29th May 1957, and on 3rd June 1957 Dr. Holthuis replied, agreeing that it was desirable that this inadvertent omission should be rectified.

3. In a note dated 5th June 1957 Commissioner J. Chester Bradley (*Ithaca, N.Y., U.S.A.*) drew attention to the fact that, although it was proposed in this application (: 239⁷) that the family-group name ALBUNEIDAE (correction of ALBUNIDAE) Stimpson, 1858, should be placed on the *Official List of Family-Group Names in Zoology*, by some oversight no corresponding proposal had been made for the addition to the *Official Index of Rejected and Invalid Family-Group Names in Zoology* of the name ALBUNIDAE Stimpson, 1858, as an Invalid Original Spelling for ALBUNEIDAE.

4. In the circumstances described above I now, as Secretary, hereby direct that in the Ruling to be prepared for the *Opinion* embodying the decision taken by the Commission by its vote on Voting Paper V.P.(57)34 :—

- (a) the specific name *limosus* Rafinesque, 1817, as published in the combination *Astacus limosus*, be placed on the *Official List of Specific Names in Zoology* ;
- (b) the family-group name ALBUNIDAE Stimpson, 1858, be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as an Invalid Original Spelling for ALBUNEIDAE.

14. Determination of the authorship and date to be attributed to the family-group name based on the generic name "Melicerta"

⁶ For the proposal here in question see paragraph 4 of the application reproduced in the first paragraph of the present *Opinion* (: 226).

⁷ The proposal here referred to appeared in paragraph 12(6)(a) in the application reproduced in the first paragraph of the present *Opinion* (: 235).

Schrank, 1803 (Class Rotifera) : On 14th November 1957 Mr. Hemming, as Secretary, executed the following Minute containing a determination of the authorship and date to be attributed to the family-group name *Melicerta* Schrank, 1803 (Class Rotifera):—

Determination of the authorship to be attributed to, and the date of publication of, the family-group name based on the generic name "Melicerta" Schrank, 1803 (Class Rotifera)

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

By its vote taken on Voting Paper V.P.(57)34 the International Commission agreed that the family-group name based upon the generic name *Melicerta* Schrank, 1803 (Class Rotifera) should be placed on the *Official List of Family-Group Names in Zoology* if the investigations then being carried out by the Secretary should have established the author by whom this family-group name was first published and the date on which it was published before the time came to prepare the Ruling for the *Opinion* embodying the decisions taken on the above Voting Paper.

2. Before undertaking the foregoing investigation, I held a preliminary consultation with Professor Dr. E. M. Hering (*Zoologische Museum der Humboldt-Universität zu Berlin*), as the result of which I then sought the advice of the following specialists in this group:— (i) Dr. J. Hauer (*Karlsruhe, Germany*); (ii) Dr. Max Voigt (*Schleswig, Germany*); (iii) Dr. Merzins (*Sodra Sveriges Fiskeriforening, Aneboda pa Ugglehult, Sweden*). The Commission is much indebted for the valuable information received as the result of these consultations.

3. From the information obtained through the foregoing consultations it appears that the genus *Melicerta* Schrank, 1803, was first taken as the base for a family-group name by Dujardin in 1841. On that occasion, however, the name appeared only in the vernacular (French) form "*Mélicertiens*" and accordingly possesses no status in zoological nomenclature. It appears that the first time that this name appeared in a duly Latinised form was in 1886 (*The Rotifera or Wheel-Animalcules, both British and foreign*, 1 : 30) where Hudson (C.T.) & Gosse (P.H.), when dealing with the Order Rhizota, introduced the name MELICERTADAE as the name for the second family of that Order. This name was published in the correct spelling MELICERTIDAE in 1912 when it was so used by Collin (A.), Dieffenbach (H.), Sachse (R.), & Voigt (M.) (*in Brauer (A.), Die Suesswasserfauna* 14 : 43).

4. In the light of the information summarised above, I now, as Secretary, direct that, when in pursuance of the Vote taken on Voting Paper V.P.(57)34 the Ruling is prepared for the *Opinion* embodying the decisions taken by the said vote, the name MELICERTIDAE is entered on the *Official List of Family-Group Names in Zoology*, it be there attributed to Hudson (C.T.) & Gosse (P.H.), the date "1886" be attributed to this name and it be cited as "MELICERTIDAE (correction of MELICERTADAE)". I further direct that the name MELICERTADAE Hudson & Gosse, 1886, be entered on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* as an Invalid Original Spelling for MELICERTIDAE.

15. Determination of the systematic position within the Class Crustacea of the taxa, the names of which are now being placed on "Official Lists" under the vote taken by the Commission on Voting Paper V.P.(57)34 : In the application submitted in the present case Dr. Holthuis stated that the names dealt with therein were the names of taxa belonging to the Orders Decapoda and Stomatopoda of the Class Crustacea but did not indicate to which of these Orders each of the taxa concerned belonged. Following the close of the vote on Voting Paper V.P.(57)34—when this minor omission came to light—Mr. Hemming on 12th August 1957 applied to Dr. Holthuis for information on the foregoing matter, this being required because of the practice in the case of names of taxa belonging to the Class Crustacea of citing the name of the Order as well as that of the Class when such names are placed on *Official Lists*. The required information was furnished by Dr. Holthuis on 15th August 1957 and was thereupon noted for inclusion in the Ruling to be prepared for the *Opinion* giving effect to the decisions taken by the Commission on the Voting Paper referred to above.

16. Preparation of the Ruling given in the present "Opinion" : On 21st February 1958, Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)34, subject (a) to the clarification in regard to the authorship and date attributable to the family-group name MELICERTIDAE (Class Rotifera) specified in the Minute executed by the Secretary on 14th November 1957 (the text of

which has been reproduced in paragraph 14 of the present *Opinion* and (b) to the two minor adjustments specified in the Minute previously executed by the Secretary on 5th July 1957 (the text of which has been reproduced in paragraph 13 of the present *Opinion*).

17. Original References for Generic and Specific Names : The original references for the generic and specific names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Opinion* are given in the under-mentioned places :—

- (1) The original references for the generic names placed on the *Official List* are as set out below :—
 - (a) For the seven names specified in Ruling (2) in the present *Opinion* : in paragraph 12(2) of the application reproduced in the first paragraph of this *Opinion* ;
 - (b) For the generic name specified in Ruling (3) in the present *Opinion* : in paragraph 2 of the Minute reproduced in paragraph 7 of this *Opinion*.
- (2) The original references for the specific names placed on the *Official List* are as set out below :—
 - (a) For the sixteen names specified in Ruling (4) in the present *Opinion*, other than the reference for the specific name *limosus* Rafinesque, 1817, as published in the combination *Astacus limosus* : in paragraph 12(3) of the application reproduced in the first paragraph of this *Opinion* ;
 - (b) For *limosus* Rafinesque, 1817, as published in the combination *Astacus limosus* : in paragraph 2 of the Minute reproduced in paragraph 13 of this *Opinion* ;
 - (c) For the two specific names specified in Ruling (6) in the present *Opinion* : in paragraph 12(3) of the application reproduced in the first paragraph of this *Opinion* ;

- (d) For the specific name specified in Ruling (7) in the present *Opinion* : in paragraph 5 of the Minute reproduced in paragraph 7 of this *Opinion*.
- (3) The original references for the generic names placed on the *Official Index* in Ruling (7) of the present *Opinion* are as set out below :—
- (a) For the eight names specified in Ruling (8)(a) : in paragraph 12(1)(a) of the application reproduced in the first paragraph of this *Opinion* ;
- (b) For the seven names specified in Ruling (8)(b) to (8)(h) : in paragraph 12(4) of the paper referred to above ;
- (c) For the four names specified in Ruling (8)(i) : in paragraphs 2 and 3 of the Minute reproduced in paragraph 7 of this *Opinion*.
- (4) The original references for the twenty specific names placed on the *Official Index* by Ruling (9) of the present *Opinion* are as set out in paragraph 12(1)(b) of the paper reproduced in this *Opinion*.

18. References for selections of type species for nominal genera :

The following are the references for the selections of type species for nominal genera specified in the Ruling given in the present *Opinion* :—

For *Albunea* Weber,
1795

Holthuis (L.B.), 1956, *Bull. zool.*
Nomencl. **12** : 237

For *Lysmata* Risso,
1816

Milne Edwards (H.), 1837, Cuvier's
Règne Anim. (ed. 4, Disciples' ed.)
18 : pl. 54, fig. 3

19. References for Family-Group Names : The references for the family-group names placed by the Ruling given in the present

Opinion on the *Official List* or, as the case may be, on the *Official Index*, of names for family-group taxa are given at the under-mentioned places :—

- (1) The references for the family-group names placed on the *Official List* are as set out below :—
 - (a) For the three names specified in Ruling (10)(a) to (c) : in paragraph 12(6) of the application reproduced in the first paragraph of this *Opinion* ;
 - (b) For the name specified in Ruling (10)(d) : in paragraph 3 of the Minute reproduced in paragraph 14 of this *Opinion* ;

- (2) The references for the family-group names placed on the *Official Index* are as set out below :—
 - (a) For the two names specified in Ruling (11)(b) and (c) : in paragraph 12(7) of the application reproduced in the first paragraph of this *Opinion* ;
 - (b) For the name specified in Ruling (11)(c) : in paragraph 3 of the Minute reproduced in paragraph 14 of this *Opinion*.

20. Compliance with Prescribed Procedures : The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

21. “ Opinion ” Number : The present *Opinion* shall be known as *Opinion* Five Hundred and Twenty-Two (522) of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-First day of February, Nineteen Hundred and Fifty-Eight.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING